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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,007	03/31/2004	Tetsuya Morokawa	251308US2TTCX	5236
22850	7590	02/28/2007		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER CHARNIS, AVI	
			ART UNIT 3768	PAPER NUMBER

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	02/28/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 02/28/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/813,007	Applicant(s) MOROKAWA ET AL.	
	Examiner Avi Charnis	Art Unit 3768	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☒ Claim(s) 12 and 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims are incomplete in that there is no step for providing the ultrasonic image.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4 and 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Webler et. al (US Patent 6,013,030).

Regarding claims 1-4, 12 and 13 Webler discloses probe assembly having a distally located ultrasound transducer subassembly which enables the transducer subassembly to be positioned accurately by an attending physician and then translated longitudinally (relative to the axis of the elongate probe assembly) within the patient under automated or manual control (col. 1 lines 35-40 and col. 3. line 65-col. 4 line 12).

Webler also discloses that the overall length of the imaging probe assembly 12 is suitable for the desired diagnostic and/or therapeutic intravascular procedure. For example, the overall length of the probe assembly 12 may be shorter for direct (e.g., arteriotomy) insertions as compared to the length of the probe assembly 12 needed for percutaneous distal insertions (e.g., via the femoral artery) (col. 5 lines 49-55).

Webler also teaches that the proximal end of the imaging probe assembly 12 is received within a probe drive module 20. In essence, the probe drive module 20 includes a distally open-ended and longitudinally barrel-shaped housing 22, and a positioning lever 24 which captures the proximal end of the guide sheath 14. The proximal end of the ultrasound imaging probe element 16 is mechanically and electrically connected to the probe drive module 20. Longitudinal reciprocal movements of the positioning lever 24 relative to the housing 22 will thus in turn effect relative longitudinal displacements of the distal end of the probe element 16 within the guide sheath 14 relative to the longitudinal axis of the probe assembly 12 (col.5 line 64-col. 6 line 8 and Fig. 1).

Regarding claim 11 Webler discloses exemplary ultrasound imaging system .System generally includes an ultrasound imaging probe assembly having a guide sheath and a distally located ultrasound imaging probe element inserted into the lumen of guide sheath (see Fig. 1 and col. 5 lines 38-48).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Webler' 030 as applied to claims 1-4 and 11-13 above, and further in view of Kubota et. al (US Patent 5255669).

Webler teaches all the current claims limitations except for that the insertion member including a plurality of first projections around a surface of the insertion member along a longitudinal direction of the insertion member and that the holding portion includes a second projection.

In the same field of endeavor Kubota teaches an ultrasonic treatment apparatus which includes an ultrasonic probe having two pairs of projections (col. 12 lines 58-61). Furthermore, according to Kubota , the number of projections are not limited to two pairs, but a larger number of projections may be formed (col. 12 lines 65-67).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the teaching of Webler with the teaching of Kubota in order to provide that insertion member of the probe mounted in parallel sliding relation to the body of the housing can be engaged and moved by the practitioner fingers(s) and thereby allow a physician to exercise manual control over the longitudinal positioning of the probe.

Conclusion


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Avi Charnis whose telephone number is 571-272-5948. The examiner can normally be reached on 8:30-17:00.

Art Unit: 3768

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A.C


Eleni Mantis-Mercader
SPE Art Unit 3768